

Abstract

A device and a method for the production of nanotubes, fullerene and their derivatives are disclosed.

In an environment where an inert gas flow is present at a atmospheric
5 pressure or at a lower pressure respect to atmospheric, a high
frequency electromagnetic field is generated, then, a substantially pure
or doped graphite element is subjected to this electromagnetic field at
one end and it is heated until to vaporization and simultaneously
formation and persistence of a plasma happen around and afterward
10 the vaporization zone of the same graphite element.

This graphite element continues its advancement inside the
electromagnetic field and the material that has been vaporized with the
advancement is re-established; a second high frequency
electromagnetic field afterward the first is present; this electromagnetic
15 field generates another plasma.

So that a large amount of nanotubes, fullerene and their derivatives is
simply produced with high yield.